

What is claimed is:

1. A method for melting treatment of radioactive metals, said
5 melting treatment being performed for separating steel-based metal and
nuclear fuel substances from radioactive steel-based metal wastes,
comprising the step of separating said nuclear fuel substances as oxide by
melting said steel-based metallic wastes.
- 10 2. A method for melting treatment of radioactive metals according
to claim 1, wherein said steel-based metal is hull made of stainless alloy.
3. A method for melting treatment of radioactive metals according
to claim 1, wherein said nuclear fuel substances are separated as oxides
15 while suppressing a percentage content of aluminum through the said
melting of the steel-based wastes.
4. A method for melting treatment of radioactive metals according
to claim 2, wherein said nuclear fuel substances are separated as oxides
20 while suppressing a percentage content of aluminum through the said
melting of the steel-based wastes.
5. A method for melting treatment of radioactive metals according
to claim 1, wherein said nuclear fuel substances are uranium.
25
6. A method for melting treatment of radioactive metals according
to claim 1, wherein said steel-based metal wastes are melted by being
heated to a temperature not lower than a melting point thereof.
- 30 7. A method for melting treatment of radioactive metals according
to claim 6, wherein said temperature is in a range of from 1500 to 1650

degrees centigrade.

8. A method for melting treatment of radioactive metals according to claim 1, wherein an atmospheric air or the one including a slight
5 amount of an argon gas is introduced when melting said steel-based metal wastes.

9. A method for melting treatment of radioactive metals according to claim 1, wherein said nuclear fuel substances are separated as oxides,
10 and then recycled through a reprocessing step.